

In the Claims

The following listing replaces all previous versions of the Claims.

We claim:

1. (currently amended) A device for transmitting a movement, comprising:
 - (a)- at least one moveable member (2)-which is coupled to at least one parallel kinematics transmission structure, (3)-each providing three translational degrees of freedom;
 - (b)- at least one rotative actuator (30)-which is coupled to the parallel transmission structure (3) over a control arm (10)-such that any translational movement of the moveable member is transmitted converted into a-rotational movement of a portion of the rotative actuator, or vice versa;
 - (c)- wherein the rotative actuator (30) is arranged such that its axis (31) is substantially perpendicular to a rotation axis (11)-of the control arm-(10).
2. (currently amended) ~~The-A~~ device according to claim 1, wherein the moveable member (2) is coupled to three parallel kinematics transmission structures (3)-in a delta type arrangement, wherein each parallel kinematics transmission structure is being-coupled to a respective rotative actuator-(30), wherein the rotative actuators (30)-are arranged such the their axis are substantially parallel to each other.
3. (currently amended) ~~The-A~~ device according to claim 2, wherein the rotative actuators (30)-are arranged on a common base member (1)-of the device in a close relationship to each other.
4. (currently amended) ~~The-A~~ device according to ~~one of the preceding claims~~claim 1, further comprising a cable member (51)-to transmit the movements between the rotative actuator (30)-and the control arm-(10).
5. (currently amended) ~~The-A~~ device according to claim 4, wherein the cable member (51)-is coupled to a shaft of the rotative actuator (30)-at one end and to the respective control arm (10)-at the other.
6. (currently amended) ~~The-A~~ device according to ~~one of the preceding claims~~claim 1, where at least some of the articulations (23)-of the parallel kinematics transmission structure (3)-are flexible hinge articulations.
7. (currently amended) ~~The-A~~ device according to claim 6, wherein at least two of the base member, control arm, linking bar and flexible hinge articulations are made from one piece.
8. (currently amended) ~~The-A~~ device according to ~~one of the preceding claims~~claim 1, wherein the control arm (10)-is provided with a restoring element (80)-such as to provide a restoring force against the force exerted by the rotative actuator-(30).
9. (currently amended) ~~The-A~~ device according to ~~one of the claims~~ 4-8, wherein the shaft of the rotative actuator (30)-is adapted to enable secure coiling and uncoiling of the cable member-(51).
10. (currently amended) ~~The-A~~ device according to ~~one of the claims~~ 4-9, wherein the cable member (51)-is coupled at a fixation point (60)-of the control arm (10)-such as to allow the end of the cable to rotate with respect to the control arm-(10).
11. (currently amended) ~~The-A~~ device according to ~~one of the preceding claims~~1, further comprising at least one redirection member (70)-for each control arm-(10), wherein each redirection member (70)-is fixedly mounted on a base member of the device and located between the control arm (10)-and the shaft of the respective rotative actuator-(30).

12. (currently amended) ~~The A~~ device according to claim 11, wherein the redirection member (70) is located in a distance from the shaft of the respective rotative actuator (30) such as to allow an appropriate incidence of the cable member (51) on the shaft of the actuator (30).
13. (currently amended) ~~The A~~ device according to one of the claims 11-12, further comprising a torsional spring (81) arranged to bias the shaft of the rotative actuator (30).
14. (currently amended) ~~The A~~ device according to claim 13, wherein the torsional force of the spring (81) is such that the pre-stressing action of the restoring element is at least partly compensated.
15. (currently amended) A haptic device for providing a user with force-feedback information, comprising a device for transmitting a movement according to one of the preceding claims 1.
16. (currently amended) ~~The A~~ haptic device according to claim 15, further comprising a sensor for measuring the aperture angle of each control arm (10) and a processor for calculating the position of the moveable member (2) based on the results of the measurement.
17. (currently amended) ~~The A~~ haptic device according to claims 15 or 16, further comprising a wrist module arranged in series with the parallel transmission structure (3) and adapted to provide at least one rotational degrees of freedom.
18. (currently amended) ~~The A~~ haptic device according to claim 17, wherein the wrist module is adapted to provide a tactile feedback.
19. (currently amended) ~~The A~~ haptic device according to one of claims 15-18, further comprising control keys, control wheels, force grippers or other elements used for a human computer interface.
20. (currently amended) ~~The A~~ haptic device according to one of the claims 15-19, further comprising a force sensor located underneath the wrist module.
21. (currently amended) A manipulator for providing movements of at least three translational degrees of freedom to a manipulation member (96), comprising a device for transmitting a movement according to one of the claims 1-14.
22. (currently amended) A measuring system for providing at least three translational degrees of freedom to a sensor element (99), comprising a device for transmitting a movement according to one of the claims 1-14.